

Rabbit p73 Polyclonal Antibody | anti-p73 antibody

Phospho-p73 (Thr86) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329824	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (88%), Bovine (100%), Sheep (100%), Dog (100%)	ELISA, Western Blot

PRODUCT SYNONYMS

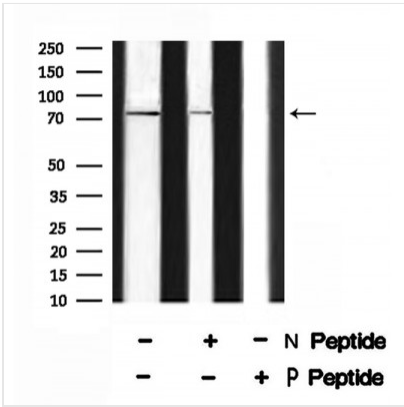
p73; Polyclonal Antibody; Phospho-p73 (Thr86) Antibody; Delta N p73; DNp73; p53 like transcription factor; p53 related protein; P73; TP73; anti-p73 antibody

PRODUCT SPECIFICATIONS

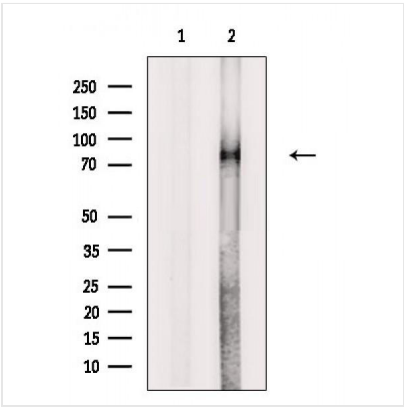
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (88%), Bovine (100%), Sheep (100%), Dog (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-p73 (Thr86) Antibody detects endogenous levels of p73 only when phosphorylated at Thr86. Tissue Specificity: Expressed in striatal neurons of patients with Huntington disease (at protein level). Brain, kidney, placenta, colon, heart, liver, spleen, skeletal muscle, prostate, thymus and pancreas. Highly expressed in fetal tissue.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-p73 antibody	ELISA (Peptide ELISA), WB (Western Blot)
Immunogen	A synthesized peptide derived from human p73 around the phosphorylation site of Thr86.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Isoform alpha (but not isoform beta) is sumoylated on Lys-627, which potentiates proteasomal degradation but does not affect transcriptional activity. Phosphorylation by PLK1 and PLK3 inhibits the transcription regulator activity and pro-apoptotic function. Higher levels of phosphorylation seen in the brain from patients with Huntington disease. Polyubiquitinated by RCHY1/PIRH2; leading to its degradation by the proteasome.
Subunit Structure	Found in a complex with p53/TP53 and CABLES1. The C-terminal oligomerization domain binds to the ABL1 tyrosine kinase SH3 domain. Interacts with HECW2. Isoform Beta interacts homotypically and with p53/TP53, whereas isoform Alpha does not. Isoform Gamma interacts homotypically and with all p73 isoforms. Isoform Delta interacts with isoform Gamma, isoform Alpha, and homotypically. Isoforms Alpha and Beta interact with HIPK2. Isoform Alpha interacts with RANBP9. Isoform Beta interacts with WWOX. Interacts (via SAM domain) with FBXO45 (via B30.2/SPRY domain). Interacts with YAP1 (phosphorylated form). Interacts with HCK (via SH3 domain); this inhibits TP73 activity and degradation. (Microbial infection) Interacts with Epstein-Barr virus protein EBNA6; this interaction inhibits TP73-mediated apoptotic pathway.
Similarity	Possesses an acidic transactivation domain, a central DNA binding domain and a C-terminal oligomerization domain that binds to the ABL1 tyrosine kinase SH3 domain. The PPxY motif mediates interaction with WWOX. Belongs to the p53 family.

Subcellular Location	Nucleus. Cytoplasm. Note: Accumulates in the nucleus in response to DNA damage.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of p73 (Phospho-Thr86) using EGF treated NIH-3T3 whole cell lysates.- /+ means absence or presence of N peptide(“non-phospho peptide) and P peptide(phospho peptide).



WB (Western Blot)
Western blot analysis of extracts from Rat heart, using Phospho-p73 (Thr86) Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-p73 antibody	Participates in the apoptotic response to DNA damage. Isoforms containing the transactivation domain are pro-apoptotic, isoforms lacking the domain are anti-apoptotic and block the function of p53 and transactivating p73 isoforms. May be a tumor suppressor protein.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	187828902
NCBI GeneID	7161
NCBI Accession #	NP_001119712.1
NCBI GenBank Nucleotide #	NM_001126240.2
UniProt Accession #	O15350; O15351; Q17RN8; Q5TBV5; Q5TBV6; Q8NHW9; Q8TDY5; Q8TDY6; Q9NTK8; B7Z7J4; B7Z9C1
Molecular Weight	69,623 Da
NCBI Official Full Name	tumor protein p73 isoform b
NCBI Official Synonym Full Names	tumor protein p73
NCBI Official Symbol	TP73
NCBI Official Synonym Symbols	P73
NCBI Protein Information	tumor protein p73; p53-related protein; p53-like transcription factor
UniProt Protein Name	Tumor protein p73
UniProt Gene Name	TP73
UniProt Synonym Gene Names	P73
UniProt Entry Name	P73_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/p73-antibody-peptide-elisa-western-blot-elisa/329824>